External Opportunities: Other Issues

Protecting Source Water Financial Resources Public Awareness

Source Water Protection

- Prevent Future Contamination
- Reduce Current Contamination

Elements of a Local Source Water Protection Program

- 1) Assess Source
- 2) Assemble Project Team
- 3) Choose Management Tools

1) Assess Source Water

- System/Third-party Activities Can Build on the State Source Water Assessment
 - SWAP will delineate source water protection areas, identify sources of contamination, and analyze susceptibility
 - Gather additional information where necessary
 - Create map for use in management decisions (GIS)
 - Prioritize contamination threats
 - Update assessment (if not updated by state)

2) Assemble Local Project Team

- Assemble Committed Team to Guide Process
- Bring Together Appropriate
 Stakeholders
- Recruit Volunteers

- Establish Partnerships
 - Local authorities
 - Citizen groups
 - Neighboring communities
 - State regulators
 - Federal land management agencies
 - Businesses

3) Regulatory Management Tools

- Zoning Ordinances
 (Prohibition of Various Uses, or Permit Conditions)
- Performance Standards
- Health Regulations (Septic Systems, Floor Drains)



3) Non-Regulatory Management Tools

- Public Education
- Citizen Involvement
- Best Management Practices (BMPs)
- Land Acquisition and Protection
- Water Conservation

Financial Resources

Assessment of Financial Options -- Implications

ssing External Opportunities	Option	Cost	Source	Rates
	1			
	2			
	N			
o O				

Water Rates

- Rates=f(cost,cost allocation, rate design...)
- Cost=f(system organization, roles, technology...)
- Choosing Economically Efficient Solutions Will Lead to Lower Rates

Water System Cost Allocation and Rate Design

- Fixed Charge -Capital
- Variable Charge O&M

Sustainable Pricing

Sustainable
Water Rate
(\$/unit)

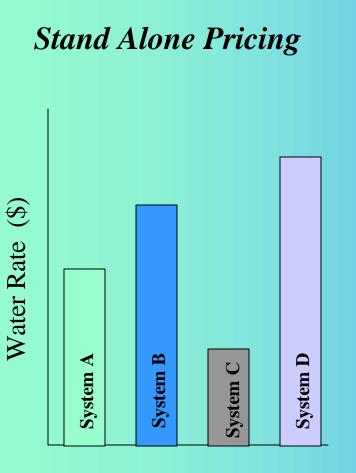
Low enough to be affordable for customers so that the system can be supported over time





High enough to cover the cost of service and send efficient price signals to guide consumption and product decisions

^{*} Adapted from EPA, Sustainable Pricing: A Long Term Capacity Development Strategy





Major Funding Sources for Small Systems

Grants

- EPA Drinking Water
 State Revolving Fund
 (DWSRF) principal
 forgiveness
- HUD CommunityDevelopment BlockGrant (CDBG) Program
- USDA Rural Utilities
 Service (RUS) Water
 and Waste Disposal
 Program

Loans

- DWSRF
- CoBank Rural Utility
 Banking Group
- State Programs
- Private Capital Markets
- USDA Rural Utilities
 Service (RUS) Water
 and Waste Disposal
 Program

DWSRF

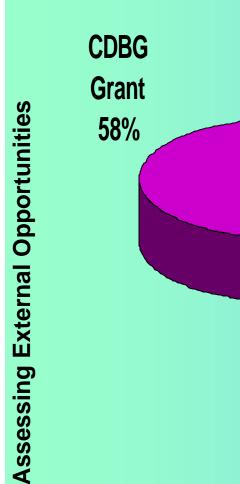
Loan

36%

Forgiven

Principal

6%





- 2,860 Served
- Disadvantaged
- Project to Install New Secondary Well
- Estimated Cost: \$358,000
- Total Funding: \$358,000

Public Awareness

Your Customers... Friends or Foes?

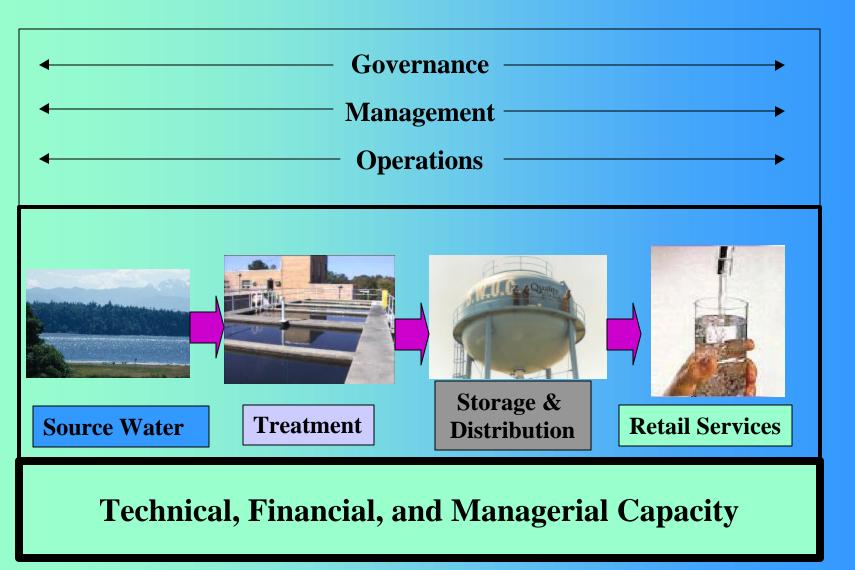
Interactions with the Public

- Public Relations
- Public Education
- Public Involvement

As Part of Your Strategic Plan...

 What Specific Actions Will You Take to Maintain Public Support?

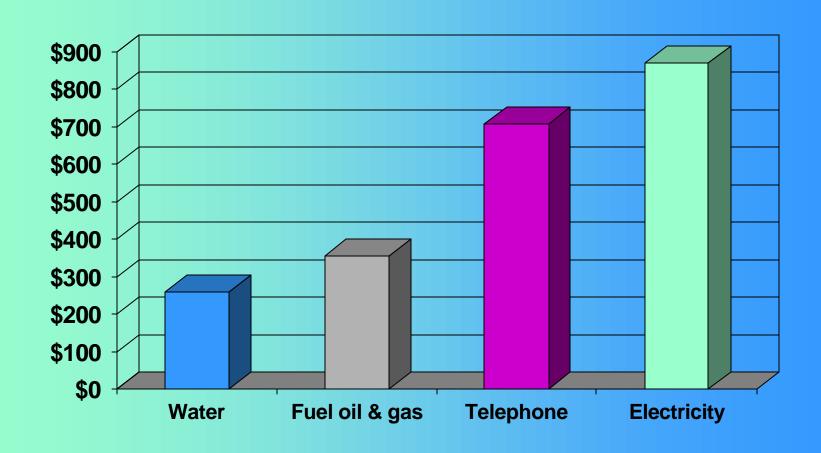
Strategic, Functional Water System Model



Assessing Interactions with the Public

Utility Function	Steps to Build and Maintain Public Support
Source	
Treatment	
Storage & Distribution	
Retail Services	

Annual Household Expenditures for Utilities



Source: U.S. Bureau of Labor Statistics, Consumer Expenditures in 1995

Summary

- Getting the Public Involved can:
 - Increase public understanding of true cost and value of water
 - Increase customer willingness to pay and to act
 - Increase public support for changes in infrastructure and administration
 - Enhance water service through public involvement in decision-making, source water protection